

# Converting Colors

XYZ(62.3120, 75.5852, 50.5714)

Have a look what the booklet for  
XYZ(62.3120, 75.5852, 50.5714)  
contains.

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# **Color**

**XYZ(62.3437, 75.8068,  
50.3760)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CCECAC
RGB	204, 236, 172
RGB Percent	80%, 93%, 67%
CMY	0.2000, 0.0745, 0.3255
CMYK	0.14, 0.00, 0.27, 0.07
HSL	90°, 63%, 80%
HSV	90°, 27%, 93%
XYZ	62.3437, 75.8068, 50.3760
YIQ	219.1360, 1.4720, -26.6880

# Conversions

## Conversions Part 2

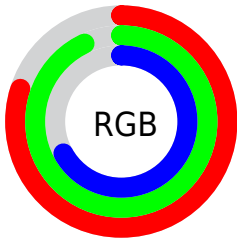
Format	Color
<a href="#">RYB</a>	<a href="#">172, 236, 204</a>
Decimal	<a href="#">13429932</a>
CIELab	<a href="#">89.77, -21.47, 27.68</a>
CIElCh	<a href="#">90, 35.028, 127.806</a>
Yxy	<a href="#">75.8068, 0.3307, 0.4021</a>
Android (android.graphics.Color)	<a href="#">4291620012</a> ( <a href="#">0xFFCCECAC</a> )
YUV	<a href="#">219.1360, -23.2380, -13.2743</a>
Hunter-Lab	<a href="#">87.0671, -24.5539, 26.6425</a>

# Details

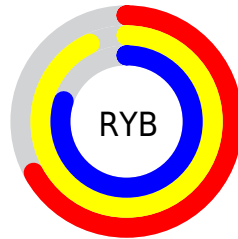
The XYZ color **62.3437, 75.8068, 50.3760** is a light color, and the websafe version is hex **CCFFCC**. A complement of this color would be **54.7977, 48.4006, 85.8150**, and the grayscale version is **67.5836, 71.1032, 77.4313**.

A 20% lighter version of the original color is **91.0036, 98.3814, 87.5919**, and **32.0455, 40.3640, 23.5548** is the 20% darker color. If you saturate the color by 10%, you get **57.1629, 73.3774, 39.3344**, and if you desaturate by 10%, it is **68.1761, 78.5302, 63.5523**.

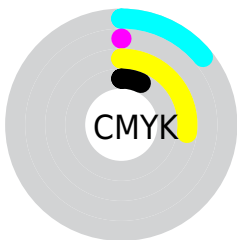
# Distribution



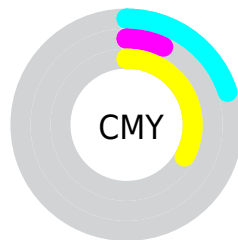
- Red (80%)
- Green (93%)
- Blue (67%)



- Red (67%)
- Yellow (93%)
- Blue (80%)



- Cyan (14%)
- Magenta (0%)
- Yellow (27%)
- Black (7%)




- Cyan (20%)
- Magenta (7%)
- Yellow (33%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 62.3437, 75.8068, 50.3760 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 62.3437, 75.8068, 50.3760 by changing the saturation by 10% instead.





 62.3437, 75.8068,  
50.3760

 62.3437, 75.8068,  
50.3760


422.8813,  
480.6861, 404.9116

 45.5671, 56.2741,  
35.3390


 107.3093,  
127.4538, 92.1338

 32.1075, 40.4227,  
23.6385


136.2290,  
160.3368, 119.6916

 21.5996, 27.8683,  
14.8559


169.9271,  
198.4388, 152.2601

 13.6779, 18.2264,  
8.5728

208.7689,  
242.1441, 190.2578

 7.9772, 11.1127,  
4.3706

253.1200,  
291.8370, 234.1033

 4.1321, 6.1427,  
1.8308


303.3454,

 1.7771, 2.9320,


347.9021, 284.2150


0.4482


359.8108,  
410.7237, 341.0116


 0.5038, 1.0963,  
0.0000

 0.0000, 0.0000,  
0.0000


 62.3437, 75.8068,  
50.3760


 62.3437, 75.8068,  
50.3760


 57.1629, 73.3774,  
39.3344


 68.1761, 78.5302,  
63.5523


 52.6012, 71.2207,  
30.3101

 74.6792, 81.5484,  
78.9626

 48.6316, 69.3280,  
23.1820

 81.8785, 84.8744,  
96.7056

 45.2226, 67.6859,  
17.8140

 87.9050, 87.7615,  
106.9143

■ 42.3389, 66.2795,  
14.0517

■ 89.2870, 88.4740,  
106.9790

■ 39.9398, 65.0920,  
11.7141

■ 37.9744, 64.1022,  
10.5667

■ 37.4671, 63.8450,  
10.3486

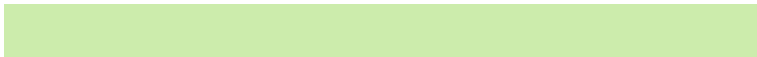
# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



69.8199, 75.8068, 43.8168



62.3437, 75.8068, 50.3760



57.7429, 75.8068, 65.8461

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



62.3437, 75.8068, 50.3760



65.9589, 75.8068, 134.8765



89.7901, 75.8068, 76.2478

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



62.3437, 75.8068, 50.3760



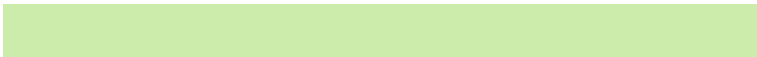
54.7977, 48.4006, 85.8150

# Split Complementary

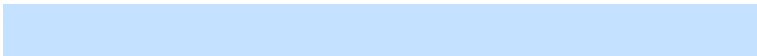
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



88.5492, 75.8068, 101.8426



62.3437, 75.8068, 50.3760



74.3313, 75.8068, 139.1994

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



62.3437, 75.8068, 50.3760



59.7109, 75.8068, 115.2640



82.7194, 75.8068, 126.1115



85.9863, 75.8068, 56.6832



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



62.3437, 75.8068, 50.3760



56.6981, 75.8068, 80.7331



82.7194, 75.8068, 126.1115



89.9543, 75.8068, 84.3751

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



62.3457, 75.8101, 50.3776



88.2838, 96.8714, 92.3396



63.6342, 63.9999, 48.0301



18.6369, 20.6142, 19.1410



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

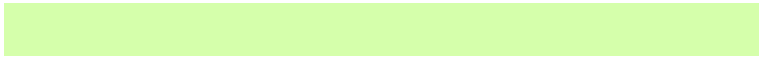


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



62.3457, 75.8101, 50.3776



70.5141, 88.5889, 51.8360



54.4573, 71.7435, 50.0085



15.5859, 17.2320, 16.0234



20.8010, 35.2678, 5.7110



1.7443, 2.8266, 0.4536



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



54.7977, 48.4006, 85.8150



60.0045, 50.4247, 101.1781



64.4879, 53.3961, 86.2685



14.9489, 14.9189, 19.0140



12.6141, 5.5387, 44.1472

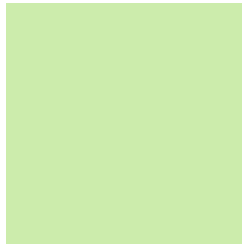


1.1015, 0.4921, 3.4718



# Previews

## White Background



This preview shows how the XYZ color 62.3437, 75.8068, 50.3760 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

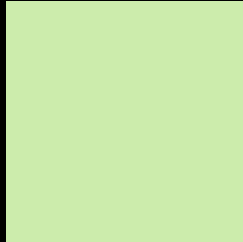
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 62.3437, 75.8068, 50.3760 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

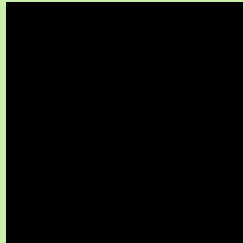
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

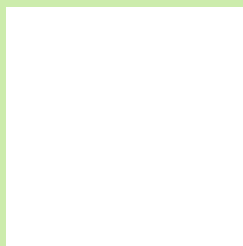
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 62.3437, 75.8068, 50.3760**

## **Background**



This preview shows how black text looks on a background with the XYZ color 62.3437, 75.8068, 50.3760.



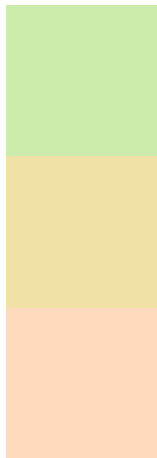
This preview shows how white text looks on a background with the XYZ color 62.3437, 75.8068,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

62.3437, 75.8068, 50.3760

### Protanopia

70.5182, 75.5177, 47.4189

### Deuteranopia

75.4967, 75.0769, 58.6563



## Tritanopia

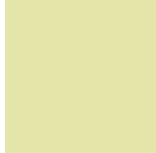
71.9748, 75.9778, 97.2579

# Trichromacy



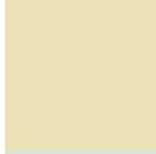
## Original Color

62.3437, 75.8068, 50.3760



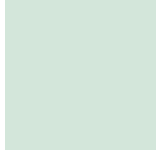
## Protanomaly

67.1757, 75.3972, 48.5487



## Deuteranomaly

70.0645, 75.1022, 55.6031



## Tritanomaly

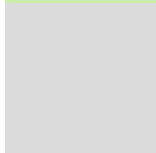
67.8157, 75.5045, 77.3292

# Monochromacy



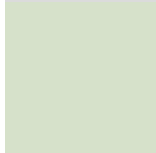
## Original Color

62.3437, 75.8068, 50.3760



## Achromatopsia

67.3311, 70.8376, 77.1421



## Achromatomaly

65.3174, 72.4108, 66.4112

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 62.3437, 75.8068, 50.3760 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(204, 236, 172)` looks like.

```
.text, #text, p{  
    color:rgb(204, 236, 172)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(204, 236, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 236, 172) }
```

## Border

The CSS property to change the border of an element to XYZ 62.3437, 75.8068, 50.3760 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(204, 236, 172) }
```



If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(204, 236, 172) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(204, 236, 172)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 236, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 236, 172);  
box-shadow:4px 4px 4px 4px rgb(204, 236,  
172) }
```

# Background

The CSS property to change the background color of an element to XYZ 62.3437, 75.8068, 50.3760 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 236, 172) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(204,  
236, 172) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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